Indicestion

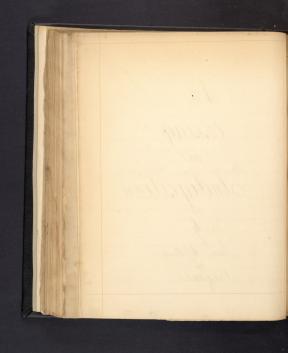
## Isaac Milliams

Race Street M. 300 between eighth + minth

admitted March 24th 1020.

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Am Essay on Indigestion Isaad Welliams Virginia



Indiquestion is a vitiated condition of that materal and important function of the unimal economy, by which it converts foreign and believe quasinous substances, into an uniform and bland fluid, fitted, is he converted by the assimilative process into animated and living matter.

An arder property to understand what indigestions is it will be meet any to take a currony news of the process of Elizations in a healthy condition, and of its defin

- dencies .

Digistion, considered in a general point of faceur, is a series of spections communing with the mastication of food in the meath, and terminating with the complete formation of Chyle in

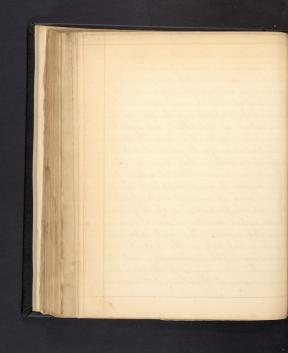


the Morace duel. Where degistion ends a formulation begins. The object of dejustion in the animal economy is to furnish materials for the grother of levenz animals, and for refrairing the daily waste of the system, and consequently die the communation of that enough important change by which animals by important change by which animals by the comment of the themselves, convert into their freedom molers, foreign and inanimalisms stances

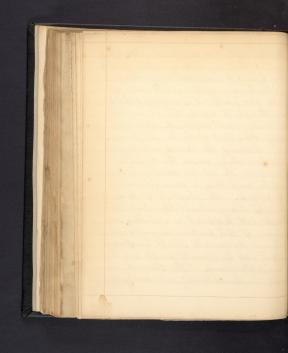
for the incureshment of the sigstem are first received into the sigstem are first received into the sigstem whereby they are gratiend down into inimite particular by wholey by wholey for that purpose (which we down it unnecepany to discribe) Auring which is unnecepany to discribe) Auring which prouds they become intimately mined



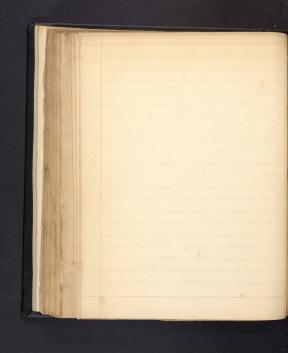
and combined with saliva (afluid with which the mouth is a bundantly sufficied and converted into a soft hulpy map, and rendered not only susceptible of being prefed into the most convenient form to be propiled into the Stomach by the action of deglulution but is at the same time filtell, to undergo the further important changes to which it is to be subjected within that organ. And whereas we conceive that it is here that it undergoes its most important change and receives its principal preparation for its intended purpose, we think property be somewhat minute in our observations whom this organ. This most important Viscus is not only in the highest degree interesting to the anatomist, and Physcologist, when contemplated as a primary organ of degestion, but more es-



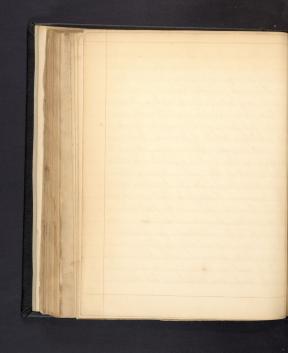
- pecially when it is considered with refer-- ence to that commanding influence which it is known to exert over every other hart of the human system; and more especially still, when it is recollected that it is 5 through its agency that we are enabled to communicate ordicinal influences to every other part of the human frame. Neewing the stomach as holding this important dank, among the organs concerned in the animal economy, it may not be amily here, to glance at some of its authoris. The simplicity of its struc -ture has become almost phaverbial, and might well be selected as a striking spe-- cimen of that piculiar economy of nature) wherein she seems to delight in effecting great ends by apparently simple and lin-- considerable means. The Stomach setuated in the abdomen, and occupying



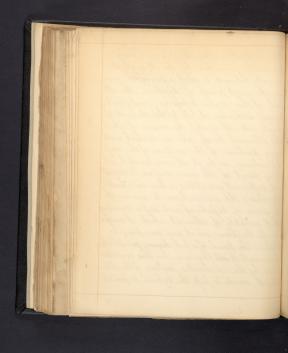
principally the Left hypochandrian and the epigastrie regions, immediately below the liver; is of considerable length and same what of a curved and of a conical shape, larger at one extremity than at the other. Being situated transversely in the abdominal cavity, it appears to be admi-- rably catculated by mature for the retin - tion of the aliment taken into it, until it shall have undergone These changes which are requisite to fit it for its passage ento those organs which may be regarded as the subsidiaries of the Stomach in the great process of digestion. This organ, is composed of four dissimilar laminae vis: a Pentoneal a Muscular a mervous and a Vellous coal. The latter of which on the present occasion, sums to be smore particularly intelled to our con-· sideration, inasmuch as it is the one that



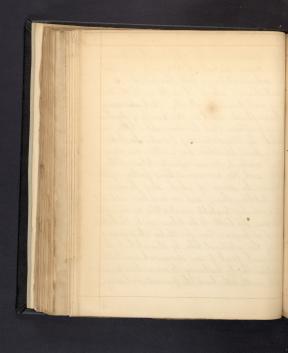
lines the cavity of the stomach, and consequently is orner immediately exposed to the various impressions which the multifarious articles Taken into this organ are calculated to make. It appears to be a then delicate and flexible omenbrane popelsing great vascularity and sensibility; Twhile it presents San irrigu--lar and rugose appearance. From the surface of this coat is effused a peculiar fluid called the gastrie lequor. This important fluid, for the Secretion of which, The numerous bloodvelsels That are directed to the Stomach appear to be destined, as to its peculiar characteristics, This or very difficult to be understood, for as much as it is almost impracticable to obtain it in a pure state unmixed with other matter. It is said in its nature to be muther purely acid, mor alkaline; but that it



bears a great analogy to saliva. Bung a bundantly Jurnished by the Stomach it is generally believed to exert a powerful agency in the great process of digestion. The vellous coat of this organ possessing quat flexibilito and adhering closely to the aliment intro duced into its cavity by means of which the Stomach being ever in contact with every partion of the surface of the map il contains, is by it at once excited at every point of lits inner surface, to surele ind sufficient quantities, when in a healthy condition the gastrie liquor to answer the purposes of disolving and so far digesting that quantity of allment which is necessa - my to be taken in at any one time as within the period of a few, hours completely to convert it into Chyme. In this condition it is by the verndeular motion of the Sto-- mach made to pass the pylorie arifue into



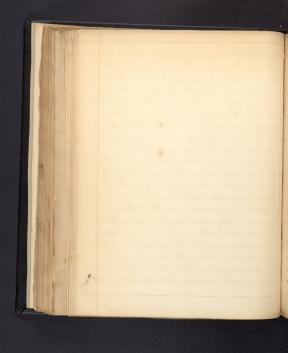
the duodenum. The Chyme when it reaches this organ consists of two parts one that is extrementations, and one which is mutritious; where it muts with the biliany and pancreater fluids. But what agency these fluids exert in the process of digestion is a question that has been not a little age tated by Physiologists. Doctor Jackson in a flice which he has written on degis tion contends for an affinity between the bile and the excrementations portion of the Chymo by means of which they become united together; and we and here add that this union probably renders this parties of the chyme, les liable to be taken up by the lactale; and at the same time facilitates its papage a long the intestinal tube by stimulating its internal coul to an increased perstattic motion thereby hastening its evacuation per anim; while an the Cother hand the pancreatic fluid exerting a



similar attraction for the mutritious partion of the chymous maps and by uniting with it and Thereby rendering it more fluid facilitates its reception into the loctules and its con-- version into chyle. The loctuals and a very numerous set of refsels which arisinate in the small intestines, popeling the power by contraction of propelling forward their con-Tents. They belong properly to the absorbent system, and receive their name from the function they perform; which appears to be that of converting Chyme into chyle, and of conveying it into the Thoracie duct, which hours It into the left subclavian vain at The point of its junction with the left internal Jugular vein. Chyle is a milklike fluid which is found a few hours after cating in the lactuals and having a sweetish taste, and being of a white colour, is of a consistence thinner than blood or mith; and



is that fluid substance from which the blood is formed. Hearing taken this cur-- mal economy converts farigi substances ento animated matter; we deem it proper at this stage of our enquiry to take a general view of the uttimate object for which it is designed. The general system when contemplated as a whole may be considered as composed of the serval in-- dividual systems; all however equally de-- pending whom the process of digestion for their ultimate support. They may be considered in order in the following manner; the digistive apparatus, or System the absorbent septeno, the circulatory system the respiratory systems, The glandular systems the sensitive system, the muscular systems the opeans system, the vocal system and the sexual system. Each of these systems

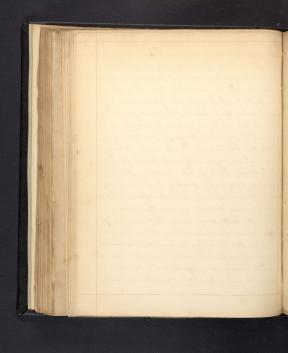


being composed of an apemblose of parts concubring in their was, has intensted to it the exercise of a fameliane of a certain degree of importance. Shaving and said all we intended on a smeeth as we conceive thesetation requires, respecting dejection in its healthy tomodelism, he proceed to motive we all reducted state.

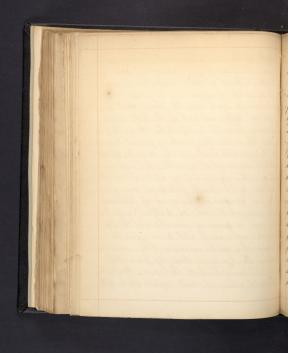
If specified a a disease to which prople of all ages are subject, every from interest to add age, but we stitlend function distinctly and it must commonly because the twent the ages of thirty and forty. It is questly sold with a roon the Sudaw, the religible was, and those who had industry and irregular lives. It quently makes it appearance is a chronic form, continuing a lengthine without much approvation by



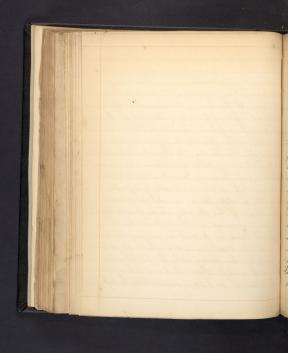
its symptoms; hence, it is looked whom by the patient to be a complaint of little consequence and under this persuasian neglic-- Ting to call in medical aid, he sufferent to go ano, while at the same line it is undermining his health, and enfectling his constitution; when suddenly with an accumulated force it makes an altack and the system with such violence and at so many different points at the same time, that if life survives the conflict it has frequently sustained so much enjury, as to be schrely bever able to repair it com-- plelely, even during a series of years. Tethaps there is no disease that presents a greater variety of symptoms than the one now under consideration, and one, that is more difficult to be definitively pointed out. We therefore intend to limbel our observa-- teans to a few of those symptoms that sum



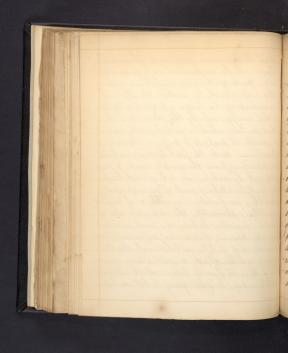
to be of the most unequivocal character; and agreeable to our present design we down it proper to treat of Them under two vecus; first, such as appear in the degestive sup. Tem itself, and secondly, that ofpear in other systems of the body which become secondarily affected. Under The first view then we have with a furned tongue a dwagnuable taste in the mouth, an appetite some what variable, but not inprequently varacious, an obstinate constipation of the lowels, flatuliney, sour erue - tations occasionally bringing up portions of undiqueted food, cardialgin irrigular shasms, a quawing sensation at the Stomach and a constructed pain under the scooliculus cordis accompaniel by a sensation as if there were a drawing from that point, down lowards the spine. Under the second view, we will notice some of the



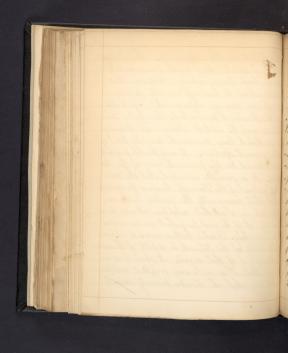
most prominent symptoms occurring in some of the other systems viz: an endfubled and imperfect respiration languid and irrique lar circulation, attended by occusional pal-- petation of the heart, didness and listlesones of mind associated with a disposition to serious neps and timedity attended not unfre-- quently with disordered vision and sween paint in the head. To these perhaps should be added many other symptoms and affections which were formerly considered as idiopothic diseases but which were properly symptomatic of dyspepsia. We made come to motive the causes of this disease, which though they are very numerous we think proper are the present accasion to confine au remarks to a few of the most common. These we shall class under two heads; under the first head, we will arrange those that are taken into The stamach and come immediately to act



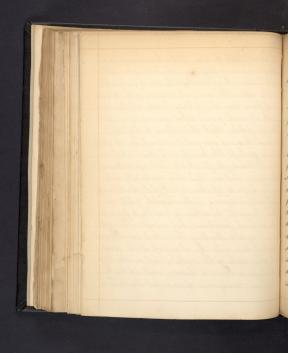
upon that organ; and under the second those which make their impression and other parts of the general system; and in this way operate to weaking the Stomach by engraping too large a proportion of the wital energy; whereby the stomoch; is denied that parties which is inclis pensibly requirite to enable it properly to perform Its matural functions. Under the first head we richard a departure from the simple mode as pointed out by mature, in eating and druking; ic first, in taking food of an impropert quality, in too large quantity ar of too great randly. Decendly, the improper use of certain marcatio Substances, such as ardent spirits, Openio, bitters, has coffee and lobacio: Shirdly hot substances taken into the Sto. mach whether fluid, or solid; large quantelus of cold legards taken into the Stomach while eating, or when going to bed, or before



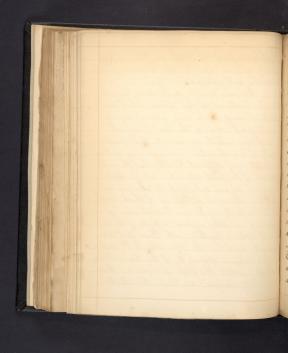
breakfast in the morning. Those ausis which properly came under our second general head lare; intense study, or close application to business unduly partled, excep in venery, exposure to viulitudes of temperature particularly the feet. To these may be added strong impressions of every hind lang continued are any part of the general system. It may here be proper to say a word on the proximal cause of the discase. It is generally admitted that the secre tory action of the Stamach becomes perverted, and that consequently the gastrie liquor is secreted in a vitidted condition as respects its quality if it be not furnished in an impro per I quantity. Dactor butters sums to impute this state of the Stomach to dibitity of the mus cular febres of that organ. It same to us evident that it is in a very crippled condition but in what its disease precisely consists



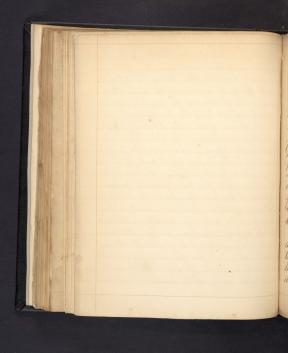
it is difficult to say. But when considering the various improfisions which the stimulating substances above mentioned and calculated to make whow the internal surface of the Stomach and from our obserbations made on this sub-- jeet derived from other sources we will to conjecture that the sillous coat of that argant becomes somewhat altered in its struct - Ture perhaps Thukewood and contracted, where-- by it looses its flexibility, and its villous af-- Meanance and en this livey malerally contre - bales towards effecting a vitiated conditionsof The gastrie lequor. I The Stamach while in This diseased conditions is unable to performe its materal functions, but in as much as there are generally speaking the usual quantities of food takens into it, it ingraped the energies of other parts of the systems and in this way predisposes them to disease, while at the Same time in consequence of imperful degestion it



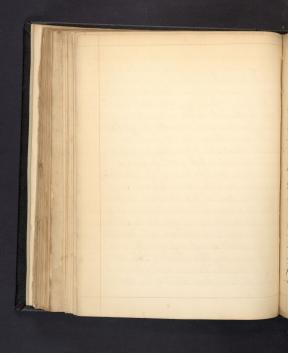
withholds from them the quantity or suitable quality of mourishment which is their natural stendulus and support. We now come to make some remarks and the treatment of this disease, which we purpose doing in a very general way by painting out some of the most prominent indications which we consider to be occase anally of two characters and requiring not un prefuently very different treatment. The inde cations of the first character cull for such remedies as are culculated for relieving or halliting the most distressing of those symplams I noticed under our breand view as occurring in other systems or parts of the ge meral system; logether with those that occur seanally occur in the Stomach itself; such as gastrodguia spasms to if the disease have already reached this state of molence; These and very various, sometimes Stewalants



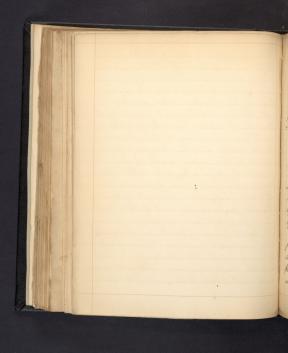
sometimes antispasmodies bloodletting It. The indications of the second character frequire means to exadicate the disease from The Sto mach itself, by avercoming the unhealthy achow and distroying the morbed affociations of that organ; and thereby to restare it again to a discharge of its national functions in a healthy conditioner. To effect this, we shall motice three indications; the first is, to evacuate The himos vias which should be commenced by and Emilie For this purpose The Specucuahla has bury generally preferred; induct, it has been thought to exert a specific salutary effect in this case; and as it is a very mild and safe medicine, there can be no possible objection to it. The Emotion Juster belo, appears to have special claims To our attention in this case, as it will not only evacuate the Stomach, Thoroughly and with safety, of its contrals when properly



administered but will at the sametimoby making a strong impression and that ordand. contribute much to the severance of Chose morbid concatinations which it has established This being down, our attentioned should mod be derected to the evacuation of du lower bowels. which should be effected by gentle purgatives. The Rhubart answert for this purpose very well, and is profined by same; but what perhaps is still better his a combination of the Calcind magnesia and the lac Sulphures in equal gelanders. One or two drachus should be Takin at a dose to be continued so as to keep the bowels in a soluble condition. The second indication is to correct acidity which is not unfrequently very Troublesome in this disease; In about To effect this the various antacids and absorbents have been resorted to. But we

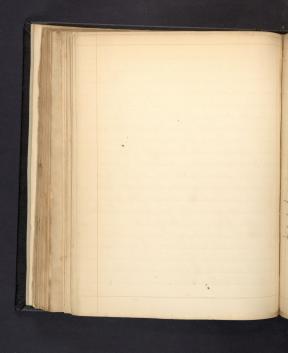


dum it necessary to name only two articles. Magnisia and the Carb. of Potash, do these perhaps, we should add, the abbrated remedy recommended by Doctor. Physick which is prepared from hickory askes soil It. The third indications is, to give love to the Stamach. To answer this indication the vareaus betters and astringents have been resorted to. The articles that have been generally im played for this purpose, are, the qualin, the gention, the Columbo Ho. of the begttable kingdane; and of the mineral, the various Chalybeater preparations, the coyde of Bismuth He. The proper employment of these, has been found to do good in most cases, and hus no doubt proved effectual in many; but they nevertheless are frequently found to fail of sweeps wiles there be do the part of the palent a street observance of a well requ lated dit. Terhaps there are few diseases



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that require the patent to be more particular in regard to his diet and habits of life Than the low mow under consideration. And when we recollect the crippled condition of the Stamach we are led to conclude that this hart of the cure of dyspession should be at - Tempted principally by a well regulated and at the same time subritions and generous dist; together with tonic impressions made on the external surface calculated to give tone to the general system, in which the Stomach participates; such as exercise, Cold bathing, frictions Ho: rules for this course of tomes are admirably laid down in 2. Not. of Doctor Chapman's Therapulus Thus the Stomach by obtaining a respete from medicinal imprepious which it has already become but illy able to sustain, is permetted gradually to newver its strugth, and with it its healthy action. me\_



We now deem it proper to conclude what we have to say on this subject by making some propholactic remarks, which we cannot do bitter than in the words of Doelor. Hamitton, in his work and purgatives. "It may be proper on some occasions" says the Doctor. To counsel the valitudinarian to for sake the hounts and habits of fashionable life; to guit the crowded city, alluring amusements, and various becupations carrud an in airless, or even in tainted rooms; to shun luxurious tables, inclo-Lenew, and late hours; to retrace the Thehs by which he has deviated from simple mature, and to court the country, puro air, and simple det."

